Global Software Development Governance: Social Networks & Distributed Collaboration

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**How does global software governance influence the collaboration of the distributed teams?**

- **RQ-1.** What aspects embody a multi-site software governance model?

- **RQ-2.** How do social network structures influence the collaboration of the distributed teams?

- **RQ-3.** How do team awareness and expertise identification influence the collaboration of the distributed teams?

### A structural approach on Collaboration Networks in GSD

**RQ-1**

**A structural approach** on how GSD activities are organized

**MULTI-SITE SOFTWARE GOVERNANCE**
- Business Strategy
- Team Structure & Composition
- Task Allocation

**outcome**

**RQ-2**

**A structural approach** on how distributed teams collaborate

**SOCIAL NETWORK STRUCTURES**
- Clusters
- Centralities
- Core/Peripheries

**outcome**

**RQ-3**

**A structural approach** on team awareness and expertise identification

**TRANSACTIVE MEMORY SYSTEMS**
- Directory Updating
- Information Allocation
- Retrieval Coordination

**outcome**

### Main Research Question

**A structural approach** on how GSD governance influence the collaboration of distributed teams

### Some of the Lessons Learned

- Supporting **unrestricted knowledge sharing** and applying an **interdependent task allocation**, results in **tightly connected clusters** across distributed teams, which in turn contribute to **better developed transactive memory systems**.

- **Hierarchical team structures** promote the role of team leader as a **central role in GSD activities**, acting as a **bridge** between the teams and controlling the flow of information across the network.

- Roles that hold **system-generic knowledge** and act as **communication hubs** between the development teams (such as the architects & integrators) are **at the core** of the GSD activities.